#3

OIPE

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/927,597

DATE: 08/23/2001
TIME: 15:20:01

Input Set : A:\Seqlist.txt
Output Set: N:\CRF3\08162001\I927597.raw

ENTERED

<110> APPLICANT: Malik, Fady
Beraud, Christophe
Freedman, Richard
Craven, Andrew
Sakowicz, Roman
Hartman, James

<120> TITLE OF INVENTION: Human smooth muscle myosin heavy chain

<130> FILE REFERENCE: CYTOP018

C--> <140> CURRENT APPLICATION NUMBER: US/09/927,597

C--> <141> CURRENT FILING DATE: 2001-08-10

<160> NUMBER OF SEQ ID NOS: 17

<170> SOFTWARE: FastSEQ for Windows Version 4.0

<210> SEQ ID NO: 1

<211> LENGTH: 5835

<212> TYPE: DNA

<213> ORGANISM: Human

<400> SEQUENCE: 1

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gagaagcagg gcttcgaggc agccagcatt aaggaggaga agggggatga ggtggttgtg 180
gagctggtgg agaatggcaa gaaggtcacg gttgggaaag atgacatcca gaagatgaac 240
ccacccaagt tctccaaggt ggaggacatg gcggagctga cgtgcctcaa cgaagcctcc 300
gtgctacaca acctgaggga gcggtacttc tcagggctaa tatatacgta ctctggcctc 360
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 57 tttgtggccg acctgtggaa ggacgtggac cgcatcgtgg gcctggacca gatggccaag 1920
 58 atgacggaga gctcgctgcc cagcgcctcc aagaccaaga agggcatgtt ccgcacagtg 1980
 59 gggcagctgt acaaggagca gctgggcaag ctgatgacca cgctacgcaa caccacgccc 2040
 60 aacttcgtgc gctgcatcat ccccaaccac gagaagaggt ccggcaagct ggatgcgttc 2100
 61 ctggtgctgg agcagctgcg gtgcaatggg gtgctggaag gcattcgcat ctgccggcag 2160
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 63 aatgccatcc ccaaaggctt catggacggg aagcaggcct gcattctcat gatcaaagcc 2280
 64 ctggaacttg accccaactt atacaggata gggcagagca aaatcttctt ccgaactggc 2340
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103 aagcgggccc tggagaccca gatggaggag atgaagacgc agctggaaga gctggaggac 4680
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ggccagttcg aaagggatct ccaagcccgg gacgagcaga atgaggagaa gaggaggcaa 4800
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<210> SEQ ID NO: 2
<211> LENGTH: 1945
<212> TYPE: PRT
<213> ORGANISM: Human
<400> SEQUENCE: 2

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Lys Arg Leu Val Trp Val Pro Ser Glu Lys Gln Gly Phe Glu Ala Ala
        35                  40                  45
Ser Ile Lys Glu Glu Lys Gly Asp Glu Val Val Val Glu Leu Val Glu
    50                  55                  60
Asn Gly Lys Lys Val Thr Val Gly Lys Asp Asp Ile Gln Lys Met Asn
65                  70                  75                  80
Pro Pro Lys Phe Ser Lys Val Glu Asp Met Ala Glu Leu Thr Cys Leu
                85                  90                  95
Asn Glu Ala Ser Val Leu His Asn Leu Arg Glu Arg Tyr Phe Ser Gly
            100                 105                 110
Leu Ile Tyr Thr Tyr Ser Gly Leu Phe Cys Val Val Val Asn Pro Tyr
        115                 120                 125
Lys His Leu Pro Ile Tyr Ser Glu Lys Ile Val Asp Met Tyr Lys Gly
    130                 135                 140
Lys Lys Arg His Glu Met Pro Pro His Ile Tyr Ala Ile Ala Asp Thr
145                 150                 155                 160
Ala Tyr Arg Ser Met Leu Gln Asp Arg Glu Asp Gln Ser Ile Leu Cys
                165                 170                 175
Thr Gly Glu Ser Gly Ala Gly Lys Thr Glu Asn Thr Lys Lys Val Ile
            180                 185                 190
Gln Tyr Leu Ala Val Val Ala Ser Ser His Lys Gly Lys Lys Asp Thr
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156          195                 200                 205
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158      210                 215                 220
159 Leu Leu Gln Ala Asn Pro Ile Leu Glu Ala Phe Gly Asn Ala Lys Thr
160 225                 230                 235                 240
161 Val Lys Asn Asp Asn Ser Ser Arg Phe Gly Lys Phe Ile Arg Ile Asn
162                 245                 250                 255
163 Phe Asp Val Thr Gly Tyr Ile Val Gly Ala Asn Ile Glu Thr Tyr Leu
164             260                 265                 270
165 Leu Glu Lys Ser Arg Ala Ile Arg Gln Ala Arg Asp Glu Arg Thr Phe
166         275                 280                 285
167 His Ile Phe Tyr Tyr Met Ile Ala Gly Ala Lys Glu Lys Met Arg Ser
168      290                 295                 300
169 Asp Leu Leu Leu Glu Gly Phe Asn Asn Tyr Thr Phe Leu Ser Asn Gly
170 305                 310                 315                 320
171 Phe Val Pro Ile Pro Ala Ala Gln Asp Asp Glu Met Phe Gln Glu Thr
172                 325                 330                 335
173 Val Glu Ala Met Ala Ile Met Gly Phe Ser Glu Glu Glu Gln Leu Ser
174             340                 345                 350
175 Ile Leu Lys Val Val Ser Ser Val Leu Gln Leu Gly Asn Ile Val Phe
176         355                 360                 365
177 Lys Lys Glu Arg Asn Thr Asp Gln Ala Ser Met Pro Asp Asn Thr Ala
178      370                 375                 380
179 Ala Gln Lys Val Cys His Leu Met Gly Ile Asn Val Thr Asp Phe Thr
180 385                 390                 395                 400
181 Arg Ser Ile Leu Thr Pro Arg Ile Lys Val Gly Arg Asp Val Val Gln
182                 405                 410                 415
183 Lys Ala Gln Thr Lys Glu Gln Ala Asp Phe Ala Val Glu Ala Leu Ala
184             420                 425                 430
185 Lys Ala Thr Tyr Glu Arg Leu Phe Arg Trp Ile Leu Thr Arg Val Asn
186         435                 440                 445
187 Lys Ala Leu Asp Lys Thr His Arg Gln Gly Ala Ser Phe Leu Gly Ile
188      450                 455                 460
189 Leu Asp Ile Ala Gly Phe Glu Ile Phe Glu Val Asn Ser Phe Glu Gln
190 465                 470                 475                 480
191 Leu Cys Ile Asn Tyr Thr Asn Glu Lys Leu Gln Gln Leu Phe Asn His
192                 485                 490                 495
193 Thr Met Phe Ile Leu Glu Gln Glu Glu Tyr Gln Arg Glu Gly Ile Glu
194             500                 505                 510
195 Trp Asn Phe Ile Asp Phe Gly Leu Asp Leu Gln Pro Cys Ile Glu Leu
196         515                 520                 525
197 Ile Glu Arg Pro Asn Asn Pro Pro Gly Val Leu Ala Leu Leu Asp Glu
198      530                 535                 540
199 Glu Cys Trp Phe Pro Lys Ala Thr Asp Lys Ser Phe Val Glu Lys Leu
200 545                 550                 555                 560
201 Cys Thr Glu Gln Gly Ser His Pro Lys Phe Gln Lys Pro Lys Gln Leu
202                 565                 570                 575
203 Lys Asp Lys Thr Glu Phe Ser Ile Ile His Tyr Ala Gly Lys Val Asp
204             580                 585                 590
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208     610                 615                 620
209 Leu Trp Lys Asp Val Asp Arg Ile Val Gly Leu Asp Gln Met Ala Lys
210 625                 630                 635                 640
211 Met Thr Glu Ser Ser Leu Pro Ser Ala Ser Lys Thr Lys Lys Gly Met
212                 645                 650                 655
213 Phe Arg Thr Val Gly Gln Leu Tyr Lys Glu Gln Leu Gly Lys Leu Met
214             660                 665                 670
215 Thr Thr Leu Arg Asn Thr Thr Pro Asn Phe Val Arg Cys Ile Ile Pro
216         675                 680                 685
217 Asn His Glu Lys Arg Ser Gly Lys Leu Asp Ala Phe Leu Val Leu Glu
218     690                 695                 700
219 Gln Leu Arg Cys Asn Gly Val Leu Glu Gly Ile Arg Ile Cys Arg Gln
220 705                 710                 715                 720
221 Gly Phe Pro Asn Arg Ile Val Phe Gln Glu Phe Arg Gln Arg Tyr Glu
222                 725                 730                 735
223 Ile Leu Ala Ala Asn Ala Ile Pro Lys Gly Phe Met Asp Gly Lys Gln
224             740                 745                 750
225 Ala Cys Ile Leu Met Ile Lys Ala Leu Glu Leu Asp Pro Asn Leu Tyr
226         755                 760                 765
227 Arg Ile Gly Gln Ser Lys Ile Phe Phe Arg Thr Gly Val Leu Ala His
228     770                 775                 780
229 Leu Glu Glu Glu Arg Asp Leu Lys Ile Thr Asp Val Ile Met Ala Phe
230 785                 790                 795                 800
231 Gln Ala Met Cys Arg Gly Tyr Leu Ala Arg Lys Ala Phe Ala Lys Arg
232                 805                 810                 815
233 Gln Gln Gln Leu Thr Ala Met Lys Val Ile Gln Arg Asn Cys Ala Ala
234             820                 825                 830
235 Tyr Leu Lys Leu Arg Asn Trp Gln Trp Trp Arg Leu Phe Thr Lys Val
236         835                 840                 845
237 Lys Pro Leu Leu Gln Val Thr Arg Gln Glu Glu Glu Met Gln Ala Lys
238     850                 855                 860
239 Glu Asp Glu Leu Gln Lys Thr Lys Glu Arg Gln Gln Lys Ala Glu Asn
240 865                 870                 875                 880
241 Glu Leu Lys Glu Leu Glu Gln Lys His Ser Gln Leu Thr Glu Glu Lys
242                 885                 890                 895
243 Asn Leu Leu Gln Glu Gln Leu Gln Ala Glu Thr Glu Leu Tyr Ala Glu
244             900                 905                 910
245 Ala Glu Glu Met Arg Val Arg Leu Ala Ala Lys Lys Gln Glu Leu Glu
246         915                 920                 925
247 Glu Ile Leu His Glu Met Glu Ala Arg Leu Glu Glu Glu Glu Asp Arg
248     930                 935                 940
249 Gly Gln Gln Leu Gln Ala Glu Arg Lys Lys Met Ala Gln Gln Met Leu
250 945                 950                 955                 960
251 Asp Leu Glu Glu Gln Leu Glu Glu Glu Glu Ala Ala Arg Gln Lys Leu
252                 965                 970                 975
253 Gln Leu Glu Lys Val Thr Ala Glu Ala Lys Ile Lys Lys Leu Glu Asp
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L:16 M:270 C: Current Application Number differs, Replaced Current Application No
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date